

	McLeansboro Group	Matoon Formation	Merom Sandstone Member	\geq				
			Cohn Coal Member	\geq				
		Bond Formation	Livingston Limestone Member	\geq				
			Riverview Limestone Member	\geq		Dissolved		
			Fairbanks Coal Member	\geq	Solids (TDS) From Selected Aquifers			
			St. Wendel Sandstone Member			Selected	a Aquileis	
			Carthage Limestone Member	\geq				
		Patoka Formation	Parker Coal Member	>				
			Raben Branch Coal Member	>				
			Dicksburg Hills Sandstone Member	>		622 - 1,450 ppm		
			Vigo Limestone Member	>-				
			Hazelton Bridge Coal Member	>				
			Inglefield Sandstone Member	>-	438 - 676 ppm			
			Ditney Coal Member	>				
			West Franklin Limestone Member	>				
		Shelburn Formation	Pirtle Coal Member	\leq				
			Busseron Sandstone Member	\leq				
			Danville Coal Member	$\overline{\mathbf{x}}$				
		Dugger Formation	Universal Limestone Member	$\stackrel{\sim}{\longrightarrow}$				
	Carbondale Group		Anvil Rock Sandstone Member	\leq				
. <u>D</u>			Hymera Coal Member					
Ď			Providence Limestone Member	\leq				
nnsylvanian			Herrin Coal Member	\leq				
SC			Bucktown Coal Member	\leq				
G □			Antioch Limestone Member	\leq				
I d			Alum Cave Limestone Member	\leq				
			Springfield Coal Folsomville Coal		-			
		Petersburg Formation	Stendal Limestone Member	\leq				
			Houchin Creek Coal Member	\leq				
			U 100 1000 1 000 1 U	\leftarrow				
		Linton Formation	Survant Coal Member	\leq				
			Velpen Limestone Member Mecca Shale Member	\leq				
			Colchester Coal Member	\rightarrow				
			Coxville Sandstone Member			US	SDW	
	Raccoon Creek Group	Staunton Formation	Seelyville Coal Member	\rightarrow	Sog	Lovel	(estimated)	
			Silverwood Limestone Member	\rightarrow	400'		ground level	
			Holland Limestone Member	\rightarrow	THOO BEIOW	9,00,10		
			Perth Limestone Member	\rightarrow				
		Brazil Formation	Buffaloville Coal Member	\rightarrow	1			
			Upper Block Coal Member	\rightarrow				
			Lower Block Coal Member	$\overline{}$				
		Mansfield Formation	Lead Creek Limestone Member	>				
			Mariah Hill Coal Member	\leq		- 28,900	ppm	
			merian im coai monicoi					

Blue indicates bedrock aquifer (Barnhart Sandstone Member and Middleman, 1990 and Bobay, 1994)

TDS = Total Dissolved Solids in parts per million (ppm)

USDW = Lowermost Underground Source of Drinking Water

Source: modified from Shaver, R. H., and others 1986, Compendium of Rock—Unit Stratigraphy in Indiana, Department of Natural Resources Geological Survey Bulletin 59. (Barnhart and Middleman, 1990)



HOUSTON, TX. SOUTH BEND, IN. BATON ROUGE, LA.

JOB NO: 60F5923

FIGURE D-1

DUKE ENERGY

EDWARDSPORT FACILITY

PENNSYLVANIAN STRATIGRAPHY SHOWING TDS AND USDW

DATE: 3/13/08 CHECKED BY: RWS JOB NO: 6
DRAWN BY: EPH APPROVED BY: RTB DWG. NO:

		Matas:	Merom Sandstone Member	
		Matoon Formation	Cohn Coal Member	
	-		Livingston Limestone Member	
	McLeansboro Group	Bond Formation	Riverview Limestone Member	Talai Diagalaa
			Fairbanks Coal Member	Total Dissolved Solids (TDS) From
			St. Wendel Sandstone Member	Selected Aquifers
			Carthage Limestone Member	
			Parker Coal Member	
		Patoka Formation	Raben Branch Coal Member	
			Dicksburg Hills Sandstone Member	
			Vigo Limestone Member	622 - 1,450 ppm
			Hazelton Bridge Coal Member	022 — 1,450 ββιίί
			Inglefield Sandstone Member	438 – 676 ppm
			Ditney Coal Member	436 — 676 ppm
			bitney codi Member	
		Shelburn Formation	West Franklin Limestone Member	
			Pirtle Coal Member	
			Busseron Sandstone Member	
		Dugger Formation	Danville Coal Member	
			Universal Limestone Member	
nnsylvanian	roup		Anvil Rock Sandstone Member	
			Hymera Coal Member	
$ \frac{3}{2} $			Providence Limestone Member	
S			Herrin Coal Member	
			Bucktown Coal Member	
D D	Gr		Antioch Limestone Member	
	Carbondale		Alum Cave Limestone Member	
		Petersburg Formation	Springfield Coal Folsomville Coal	
			Stendal Limestone Member	
	Sar		Houchin Creek Coal Member	
		Linton Formation	Survant Coal Member	
			Velpen Limestone Member	
			Mecca Shale Member Colchester Coal Member	
			Coxville Sandstone Member	
			Seelyville Coal Member	LICOW
	Raccoon Creek Group	Staunton Formation	Silverwood Limestone Member	USDW
			Holland Limestone Member	Sea Level (estimated)
			Perth Limestone Member	400' below ground level
			Buffaloville Coal Member	-
		Brazil Formation	Upper Block Coal Member	
		Mansfield Formation	Lower Block Coal Member	1
			Lead Creek Limestone Member	28,900 ppm
		Formation	Mariah Hill Coal Member	

Sandstone Member Blue indicates bedrock aquifer (Barnhart and Middleman, 1990 and Bobay, 1994)

TDS = Total Dissolved Solids in parts per million (ppm)

USDW = Lowermost Underground Source of Drinking Water

Source: modified from Shaver, R. H., and others 1986, Compendium of Rock—Unit Stratigraphy in Indiana, Department of Natural Resources Geological Survey Bulletin 59. (Barnhart and Middleman, 1990)



HOUSTON, TX. SOUTH BEND, IN. BATON ROUGE, LA.

FIGURE D-1

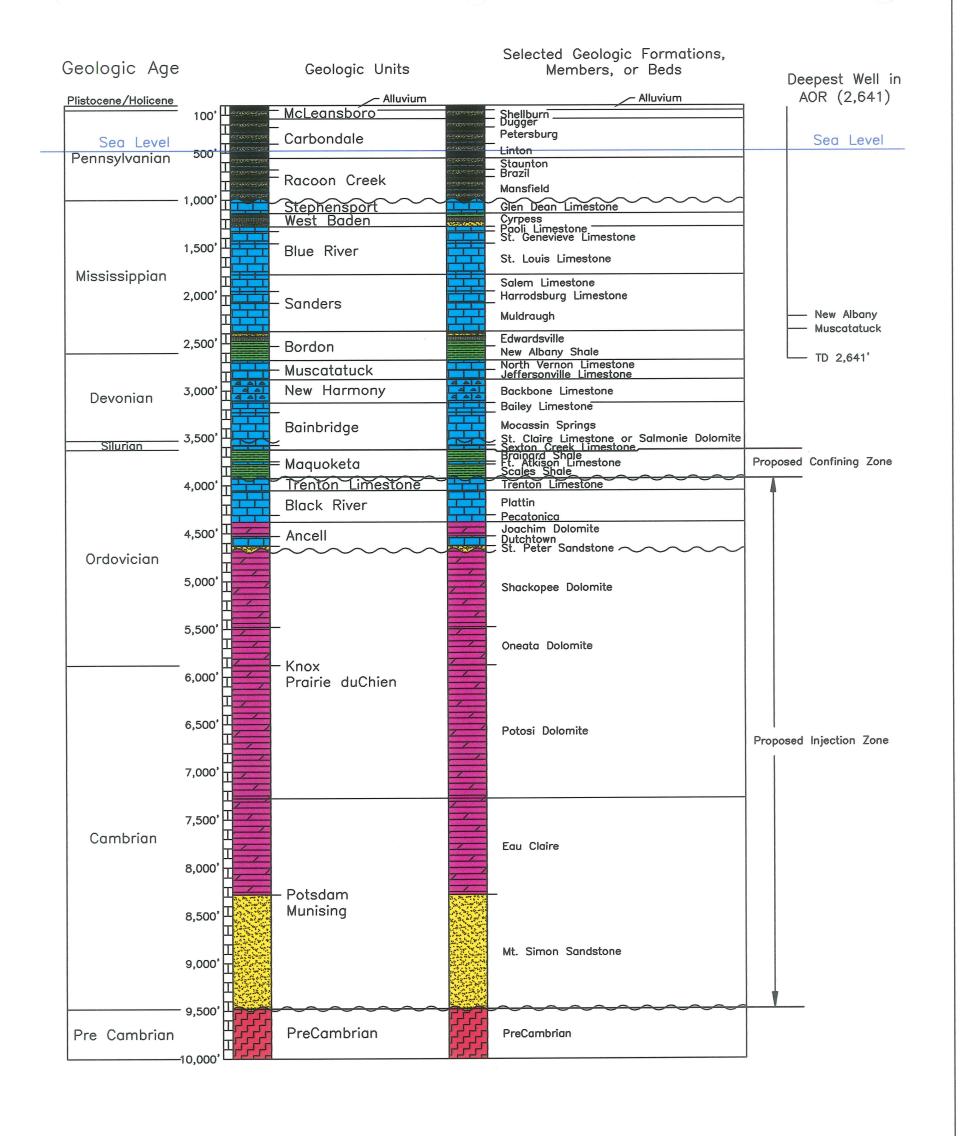
DUKE ENERGY

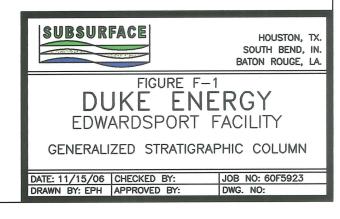
EDWARDSPORT FACILITY

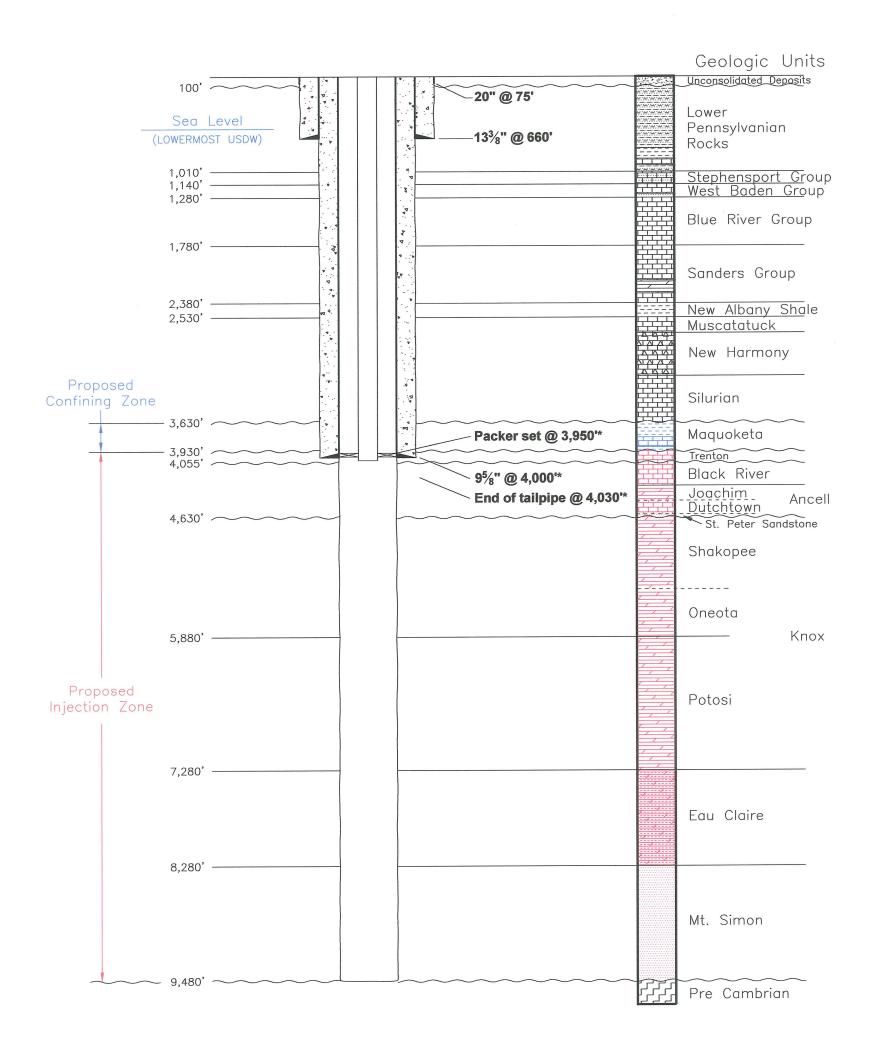
PENNSYLVANIAN STRATIGRAPHY

SHOWING TDS AND USDW

DATE: 12/11/06 | CHECKED BY: RWS | JOB NO: 60F5923
DRAWN BY: EPH | APPROVED BY: RTB | DWG. NO:











Dolomite



Limestone



Caradatana



Sandstone



<u>Note:</u>

Depths indicated on well schematic are for illustration purposes only. Actual depths will be determined based on data collected during the drilling of the well.

* Depths are for illustration only. Actual depths will be determined during drilling procedure.



HOUSTON, TX. SOUTH BEND, IN. BATON ROUGE, LA.

FIGURE F-2
DUKE ENERGY
EDWARDSPORT FACILITY

PROPOSED WELL CONSTRUCTION AND ESTIMATED STRATIGRAPHY - WDW #1

DATE: 12/18/06 CHECKED BY: RWS JOB NO: 60F5923
DRAWN BY: CRB APPROVED BY: RTB DWG. NO: